

# Jimmy Murari

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## Experience

- Oct 2021 - ongoing **PhD Thesis**  
VISION INSTITUTE - SORBONNE UNIVERSITY  
Research work on kinematic changes in fixational eye movements and its correlation to the development age-related macular degeneration (AMD) whether it is functional or physiological.
- Jan 2021 - Sep 2021 **Master's Thesis**  
IMPERIAL COLLEGE OF LONDON  
Research on Expansion Microscopy (ExM) to image developing zebrafish inner ear with very high spatial resolution in order to:
  - Validate the efficacy of the ExM Protocol for tissues.
  - Characterize the inner ear with unprecedented resolution in situ.
- May 2020 - Aug 2020 **Measurement and computing of 3D surfaces BRDF**  
OPTICS LABORATORY - ENTPE  
The goal of this internship was to get the BRDF of a 3D surface's material in order to simulate it. The measures were done in the laboratory and the calculation of the BRDF model on Matlab.
- 2019-2020 **Optical characterization of skin foundation**  
STRAND COSMETICS (MS BEAUTILAB)  
Study with a cosmetic company in the labs of the IOGS to characterize skin foundation's colour and glow thanks to their optical properties, spectral reflectance, and specular and diffuse reflection.

## Education

- 2020-2021 **MSc Biomedical Engineering**  
IMPERIAL COLLEGE OF LONDON  
Medical Physics, imaging and bio-sensors stream.  
Master in physics and engineering in the medical field, focused on imaging and medical devices.
- 2019-2020 **Master Optics Image Vision and Multimedia**  
UNIVERSITY JEAN-MONNET  
Followed simultaneously to the IOGS, this Master was about image processing, colour representation and computer vision.
- 2018-2021 **Optical Engineering School - Engineer Master's Diploma**  
INSTITUT D'OPTIQUE GRADUATE SCHOOL - IOGS  
Engineering school in which optics is studied in any forms, for engineer or research purpose.
- 2018-2021 **Intensive Studies in Math and Physics - CPGE**  
JANSON DE SAILLY  
2-year intensive program in math and physics to enter renowned engineer school

## Skills

### Programming languages

- Matlab
- Python
- C

### Software

- LabView
- Fiji
- Zemax
- Adobe suite

### Languages

### Native or bilingual

- French
- English
- Italian

### Clubs and other

#### At the IOGS

- In charge of the communication of the 2019 IOGS Gala.
- In charge of the visuals of student council
- In charge of the visuals of the sports council

#### Model United Nations

- One week simulation of the United Nations at SOMA and SSUNS
- Initiation to diplomacy and international relations

#### Pan American Games

- Volunteer at the 2015 Toronto PanAm Games

#### Ambassadeur en Herbe

- Debate competition organized by the Agency of French Schools Abroad (AEFE)
- Winner of the 2014 Edition.